

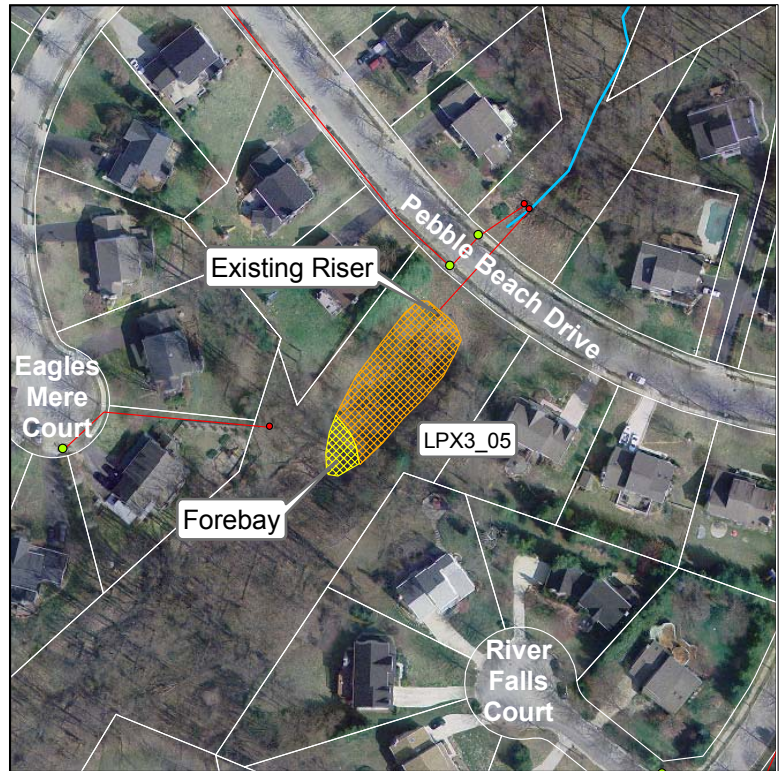
## Proposed Project

Upper Little Patuxent

**Project Number:** LPX3\_05  
**Subwatershed:** Little Patuxent 3

**Project Type:** Pond Retrofit  
**Project Size:** 23.3 acre drainage area/ 4.2 acres impervious

**Project Location:** Along Pebble Beach Drive between Eagles Mere Court and River Falls Court



**Project Description:** This project would entail retrofitting an existing pond off of Pebble Beach Drive. The pond would be excavated to increase detention volume to provide pollutant removal to current design standards. The design would incorporate water quality features such as a micropool, aquatic bench, forebay and meandering flow path. Because the project would contain standing water and is located near private residences, property owners would be kept informed and involved in the planning and design process.

### Project Benefits:

Water Quality	Conversion to a wet pond / wetland designed to current standards would provide water quality treatment and pollutant removal.
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### Project Constraints:

Environmental	No environmental constraints are anticipated with this project.
Property Ownership	This project is located on County-owned open space (Turf Valley Overlook natural resource open space).
Facility Access	Access to this site is obtained from Pebble Beach Drive.
Design / Construction	No significant design or construction issues were noted.

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### Cost Detail:

ITEM	QTY	UNITS	UNIT COST	TOTAL
<b>Site Work</b>				
Clear and Grub	0.2	AC	\$5,000.00	\$1,050
Pavement / Sidewalk Removal		SY	\$7.50	\$0
Curb-Gutter Removal		LF	\$10.00	\$0
Remove Pilot Channels		LF	\$6.00	\$0
Remove Barrel Pipe		LF	\$77.00	\$0
<b>Pond Construction</b>				
Grading and Excavation (Class I)	672	CY	\$30.00	\$20,160
Hauling and Disposal	672	CY	\$20.00	\$13,440
Embankment		CY	\$60.00	\$0
Forebay		CY	\$45.00	\$0
Safety bench	231	CY	\$30.00	\$6,930
Riser	1	LS	\$10,000.00	\$10,000
Outflow Pipe		LF	\$80.00	\$0
Outlet Protection	1	LS	\$8,000.00	\$8,000
Rip Rap Stabilization		LF	\$50.00	\$0
SWM Landscaping	980	SY	\$10.00	\$9,800
<b>Direct Construction Subtotal</b>				\$69,380
<b>Indirect Costs</b>				
E/SC, MOT, MOS (20% of Directs or \$10,000)	1	LS	\$13,876.00	\$13,876
Construction Stakeout (\$1,000/Day)	3	Day	\$3,000.00	\$3,000
Base Construction Cost				\$86,256
Mobilization (10% of Directs or \$1,000)				\$6,938
<b>Subtotal</b>				\$93,194
Contingency (30%)				\$27,958
<b>Construction Subtotal</b>				\$121,152
Env't'l Studies / Permitting (5% of Construction or \$5,000)				\$6,058
Engineering and Surveys (25% of Construction or \$40,000, maximum \$50,000)				\$40,000
<b>Total Capital Cost</b>				<b>\$167,210</b>
<b>Operations and Maintenance Costs</b>				
Annual Maintenance	6	Percent	\$4,163	
Discount Rate	5	Percent		
Expected Life	20	Years		
<b>Net Present Value of O&amp;M Costs</b>				\$51,878
<b>Life Cycle Cost</b>				<b>\$219,100</b>